



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/714,079 A  
Source: DEWO  
Date Processed by STIC: 7/15/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - cPAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):  
U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

# Raw Sequence Listing Error Summary

| ERROR DETECTED   | SUGGESTED CORRECTION  | SERIAL NUMBER: 10714079A |
|--|---|--------------------------|
| ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE |   |                          |
| 1 _____ Wrapped Nucleics<br>Wrapped Aminos   | The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."  |                          |
| 2 _____ Invalid Line Length  | The rules require that a line not exceed 72 characters in length. This includes white spaces.   |                          |
| 3 _____ Misaligned Amino<br>Numbering  | The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.   |                          |
| 4 _____ Non-ASCII  | The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.  |                          |
| 5 _____ Variable Length  | Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.  |                          |
| 6 _____ PatentIn 2.0<br>"bug"  | A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.   |                          |
| 7 _____ Skipped Sequences<br>(OLD RULES)   | Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence<br>(2) INFORMATION FOR SEQ ID NO: X: (insert SEQ ID NO where "X" is shown)<br>(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)<br>(xi) SEQUENCE DESCRIPTION: SEQ ID NO X: (insert SEQ ID NO where "X" is shown)<br>This sequence is intentionally skipped<br><br>Please also adjust the "(ii) NUMBER OF SEQUENCES" response to include the skipped sequences |                          |
| 8 _____ Skipped Sequences<br>(NEW RULES)   | Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence<br><210> sequence id number<br><400> sequence id number<br>000   |                          |
| 9 ✓ _____ Use of n's or Xaa's<br>(NEW RULES)   | Use of n's and/or Xaa's have been detected in the Sequence Listing<br>Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.<br>In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.   |                          |
| 10 _____ Invalid <213><br>Response   | Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence   |                          |
| 11 _____ Use of <220>  | Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.<br>(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)  |                          |
| 12 _____ PatentIn 2.0<br>"bug"   | Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.   |                          |
| 13 _____ Misuse of n/Xaa   | "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid  |                          |



IFWO

## RAW SEQUENCE LISTING

DATE: 07/15/2004

PATENT APPLICATION: US/10/714,079A

TIME: 10:23:06

Input Set : A:\ABXAE1Con.APP

Output Set: N:\CRF4\07152004\J714079A.raw

Does Not Comply  
Corrected Diskette Needed

(pg. 3)

```

3 <110> APPLICANT: PIROFSKI, LIISE-ANNE
4     ZHONG, ZHAOJING
5     CHANG, QING
7 <120> TITLE OF INVENTION: HUMAN ANTIPNEUMOCOCCAL ANTIBODIES FROM NON-HUMAN
8     ANIMALS
10 <130> FILE REFERENCE: ABX-AE/1CON
12 <140> CURRENT APPLICATION NUMBER: 10/714,079A
13 <141> CURRENT FILING DATE: 2003-11-14
15 <150> PRIOR APPLICATION NUMBER: PCT/US02/18363
16 <151> PRIOR FILING DATE: 2002-05-16
18 <150> PRIOR APPLICATION NUMBER: 60/291,492
19 <151> PRIOR FILING DATE: 2001-05-16
21 <160> NUMBER OF SEQ ID NOS: 21
23 <170> SOFTWARE: PatentIn Ver. 2.1
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 462
27 <212> TYPE: DNA
28 <213> ORGANISM: Homo sapiens
30 <400> SEQUENCE: 1
31 gagtttgggc tgagctggct ttttcttggt gctattttaa aaggtgtcca gtgtgaggtg 60
32 cagctgttgg agtctggggg aggcttggtg cagcctgggg ggtccctgag actctcctgt 120
33 gcagcctctg gattcacctt tagcagctat gccatgagct ggggtccgcca gggtccaggg 180
34 aaggggctgg agtgggtctc agctattagt ggtagtgggt gtagcacata ctacgcagac 240
35 tccgtgaagg gccggttcac catctccaga gacaattcca agaacacgct gtatctgcaa 300
36 atgaacagcc tgagagccga ggacacggcc gtatattact gtgcgaaagc ccctcctaac 360
37 tggggatcgt ttgactactg gggccaggga accctgggtc ccgtctctc agggagtgca 420
38 tccgccccaa cccttttccc cctcgtctcc tgtgagaatt cc 462
41 <210> SEQ ID NO: 2
42 <211> LENGTH: 648
43 <212> TYPE: DNA
44 <213> ORGANISM: Homo sapiens
46 <400> SEQUENCE: 2
47 gatattgagc tcacgcagtc tccactctcc ctgcccgtca cccttggaac gccggcctcc 60
48 atctcctgca ggtctagtc aagcctcgta tacagtgatg gaaacaccta cttgaattgg 120
49 tttcagcaga ggccaggcca atctccaagg cgcctaattt ataaggtttc taactggggc 180
50 tctgggggtc cagacagatt cagcggcagt ggggtcaggca ctgatttcac actgaaaatc 240
51 agcagggttg aggtgagga tgttgggggt tattactgca tgcaaggtag acactggcct 300
52 cggacgttcg gccaaaggac caaggtggaa atcaaacgaa ctgtggctgc accatctgtc 360
53 ttcattcttc cgccatctga tgagcagttg aaatctggaa ctgcctctgt tgtgtgcctg 420
54 ctgaataact tctatcccag agaggccaaa gtacagtgga aggtggataa cgccctccaa 480
55 tggggaact cccaggagag tgtcacagag caggacagca aggacagcac ctacagcctc 540
56 agcagcacc ctagcgtgag caaagcagac tacgagaaac acaaagtcta cgctgcgaa 600
57 gtcacccatc agggcctgag ctgcgccgtc acaaagagct tcaacagg 648

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Input Set : A:\ABXAE1Con.APP

Output Set: N:\CRF4\07152004\J714079A.raw

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60 <210> SEQ ID NO: 3
61 <211> LENGTH: 474
62 <212> TYPE: DNA
63 <213> ORGANISM: Homo sapiens
65 <400> SEQUENCE: 3
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67 caactggtgg agtctggggg aggcgtgggc cagcctggga ggtccctgag actctcctgt 120
68 gcagcgtctg gattcacctt cagtagctat ggcattgcact gggcccgcca ggctccaggc 180
69 aaggggctgg agtgggtggc agttatatgg tatgatggaa gtaataaata ctatgcagac 240
70 tccgtgaagg gccgattcac catctccaga gacaattcca agaacacgct gtatctgcaa 300
71 atgaacagcc tgagagccga ggacacggct gtgtattact gtgcgagaga tcgggagtg 360
72 ctgaggtact actactacgg tatggacgtc tggggccaag ggaccacggt caccgtctcc 420
73 tcagggagtg catccgcccc aacccttttc cccctcgtct cctgtgagaa ttcc 474
76 <210> SEQ ID NO: 4
77 <211> LENGTH: 632
78 <212> TYPE: DNA
79 <213> ORGANISM: Homo sapiens
81 <400> SEQUENCE: 4
82 gacattgagc tacgcagtct ccattcttcg tgtctgcac ttagtagagac agagtcacca 60
83 tcacttgtcg ggcgagtcag ggtattagca gctgggttagc ctggtatcag cagaaaccag 120
84 ggaaagcccc taagctcctg atctatgttg catcccggtt gcaaagtggg gtcccatcaa 180
85 ggttcagcgg cagtggatct gggacagatt tcactctcac catcagcagc ctgcagcctg 240
86 aagattttgc aacttactat tgtcaacagg ctaacagttt ccctcggacg ttccggccaag 300
87 ggaccaaggt ggaaatcaaa cgaactgtgg ctgcaccatc tgtcttcac ttcccgccat 360
88 ctgatgagca gttgaaatct ggaactgcct ctggtgtgtg cctgctgaat aacttctatc 420
89 ccagagaggg caaagtacag tggaaggtgg ataacgcctt ccaatcgggt aactcccagg 480
90 agagtgtcac agagcaggac agcaaggaca gcacctacag cctcagcagc accctgacgc 540
91 tgagcaaaagc agactacgag aaacacaaag tctacgcctg cgaagtcacc catcaggggc 600
92 tgagctcgcc cgtcacaaag agcttcaaca gg 632
95 <210> SEQ ID NO: 5
96 <211> LENGTH: 468
97 <212> TYPE: DNA
98 <213> ORGANISM: Homo sapiens
100 <400> SEQUENCE: 5
101 gaatttgggc tgagctggat ttcccttgct gctattttta aaggtgtcca gtgtgaggtg 60
102 cagctggtgg agtctggggg aggcttggtg aagcctgggg ggtcccttag actctcctgt 120
103 gcagcctctg gattcacttt cagtaacgcc tggatgagct gggcccgcca ggctccaggg 180
104 aaggggctgg agtgggttgg ccgtattaaa agcaaaactg atgggtgggac aacagactac 240
105 gctgcacccg tgaaaggcag attcaccatc tcaagagatg attcaaaaaa cacgctgtat 300
106 ctgcaaatga acagcctgaa aaccgaggac acagccgtgt attactgtac cacaagctgg 360
107 aactacaggt actactttga ctactggggc cagggaaccc tggtcaccgt ctccctcagg 420
108 agtgcacccg ccccaacctt ttcccccctc gtctcctgtg agaattcc 468
111 <210> SEQ ID NO: 6
112 <211> LENGTH: 633
113 <212> TYPE: DNA
114 <213> ORGANISM: Homo sapiens
116 <400> SEQUENCE: 6
117 gacattgagc tcacgcagtc tccagacttt cagtctgtga ctccaaagga gaaagtcacc 60
118 atcacctgcc gggccagtc gagcattggt agtagcttac actggtacca gcagaaacca 120

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TIME: 10:23:06

Input Set : A:\ABXAE1Con.APP

Output Set: N:\CRF4\07152004\J714079A.raw

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119 gatcagtcctc caaagctcct catcaagtat gcttcccagc ccttctcagg ggtcccctcg 180
120 aggttcagtg gcagtggtatc tgggacagat ttcacctca ccatcaatag cctggaagct 240
121 gaagatgctg caacgtatta ctgtcatcag agtagtagtt tacctcggac gttcggccaa 300
122 gggaccaagg tggaaatcaa acgaactgtg gctgcacat ctgtcttcat cttcccgcga 360
123 tctgatgagc agttgaaatc tggaaactgcc tctgttgtgt gcctgctgaa taacttctat 420
124 cccagagagg ccaaagtaca gtggaagggtg gataacgccc tccaatcggg taactcccag 480
125 gagagtgtca cagagcagga cagcaaggac agcacctaca gcctcagcag caccctgacg 540
126 ctgagcaaag cagactacga gaaacacaaa gtctacgcct gcgaagtcac ccatcagggc 600
127 ctgagctcgc ccgtcacaaa gagcttcaac agg 633

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130 &lt;210&gt; SEQ ID NO: 7

131 &lt;211&gt; LENGTH: 471

132 &lt;212&gt; TYPE: DNA

133 &lt;213&gt; ORGANISM: Homo sapiens

135 &lt;400&gt; SEQUENCE: 7

```

136 gagtttgggc tgagctggat tttccttgcct gctatttttaa aagggtgtcca gtgtgaggtg 60
137 cagctggtgg agtctggggg aggttggta aagcctgggg ggtcccttag actctcctgt 120
138 gcagcctctg gattcacttt cagtaacgcc tggatgagct gggtcgcgca ggctccaggg 180
139 aaggggctgg agtgggttgg ccgtattaaa agcaaaactg atgggtgggac aacagactac 240
140 gctgcacccg tgaaggcag attcaccatc tcaagagatg attcaaaaaa cacgctgtat 300
141 ctgcaaatga acagcctgaa aaccgaggac acagccgtgt attactgtac gaaacatagt 360
142 gggagctact acggatactt ccagcactgg ggccagggca ccctgggtcac cgtctcctca 420
143 gggagtgcac ccgccccaac ccttttcccc ctcgtctcct gtgagaattc c 471

```

146 &lt;210&gt; SEQ ID NO: 8

147 &lt;211&gt; LENGTH: 649

148 &lt;212&gt; TYPE: DNA

149 &lt;213&gt; ORGANISM: Homo sapiens

151 &lt;220&gt; FEATURE: 462?

152 &lt;221&gt; NAME/KEY: modified\_base

153 &lt;222&gt; LOCATION: (495)

154 &lt;223&gt; OTHER INFORMATION: a, t, c, g, other or unknown

156 &lt;220&gt; FEATURE:

157 &lt;221&gt; NAME/KEY: modified\_base

158 &lt;222&gt; LOCATION: (513)

159 &lt;223&gt; OTHER INFORMATION: a, t, c, g, other or unknown

161 &lt;400&gt; SEQUENCE: 8

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162 gatattgagc tcaactcagtc tccactctcc ctgcccgtca cccctggaga gccggcctcc 60
163 atctcctgca ggtctagtcag gagcctcctg catagtaatg gatacaacta tttggattgg 120
164 tacctgcaga agccagggca gtctccacag ctctgatct atttgggttc taatcgggcc 180
165 tccgggggtcc ctgacagggtt cagtggcagt ggatcaggca cagattttac actgaaaatc 240
166 agcagagtgg aggetgagga tgttgggggtt tattactgca tgcaagctct acaaactcct 300
167 cggacgttcg gccaaaggac caaggtggaa atcaaacgaa ctgtggctgc accatctgtc 360
168 ttcactcttc cgccatctga tgagcagttg aaatctggaa ctgcctctgt tgtgtgcctg 420

```

W--> 169 ctgaataact tctatcccag agaggc~~caaa~~ gtacagt~~gga~~ agtggataa cgcctccaa 480

W--&gt; 170 tcgggtaact cccangagag tgtcacagag cangacagca aagacagcac ctacagcctc 540

171 agcagcaccc tgacgtgag caaagcagac tacgagaaac acaaagtcta cgctgcgaa 600

172 gtcacccatc aaggcctgag ctgcgccgtc acaaagagct tcaacagga 649

175 &lt;210&gt; SEQ ID NO: 9

176 &lt;211&gt; LENGTH: 11

177 &lt;212&gt; TYPE: PRT

pls see item #  
9 on error  
summary  
sheet.

pls explain "N" location

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/714,079A

DATE: 07/15/2004

TIME: 10:23:06

Input Set : A:\ABXAE1Con.APP

Output Set: N:\CRF4\07152004\J714079A.raw

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178 <213> ORGANISM: Homo sapiens
180 <400> SEQUENCE: 9
181 Lys Ala Pro Pro Asn Trp Gly Ser Phe Asp Tyr
182   1               5               10
185 <210> SEQ ID NO: 10
186 <211> LENGTH: 12
187 <212> TYPE: PRT
188 <213> ORGANISM: Homo sapiens
190 <400> SEQUENCE: 10
191 Lys His Ser Gly Ser Tyr Tyr Gly Tyr Phe Gln His
192   1               5               10
195 <210> SEQ ID NO: 11
196 <211> LENGTH: 11
197 <212> TYPE: PRT
198 <213> ORGANISM: Homo sapiens
200 <400> SEQUENCE: 11
201 Thr Ser Trp Asn Tyr Arg Tyr Tyr Phe Asp Tyr
202   1               5               10
205 <210> SEQ ID NO: 12
206 <211> LENGTH: 15
207 <212> TYPE: PRT
208 <213> ORGANISM: Homo sapiens
210 <400> SEQUENCE: 12
211 Arg Asp Arg Glu Trp Leu Arg Tyr Tyr Tyr Gly Met Asp Val
212   1               5               10               15
215 <210> SEQ ID NO: 13
216 <211> LENGTH: 9
217 <212> TYPE: PRT
218 <213> ORGANISM: Homo sapiens
220 <400> SEQUENCE: 13
221 Met Gln Gly Thr His Trp Pro Arg Thr
222   1               5
225 <210> SEQ ID NO: 14
226 <211> LENGTH: 7
227 <212> TYPE: PRT
228 <213> ORGANISM: Homo sapiens
230 <400> SEQUENCE: 14
231 Met Ala Leu Gln Thr Arg Thr
232   1               5
235 <210> SEQ ID NO: 15
236 <211> LENGTH: 7
237 <212> TYPE: PRT
238 <213> ORGANISM: Homo sapiens
240 <400> SEQUENCE: 15
241 His Ser Ser Ser Leu Arg Thr
242   1               5
245 <210> SEQ ID NO: 16
246 <211> LENGTH: 7
247 <212> TYPE: PRT

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/714,079A

DATE: 07/15/2004

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Input Set : A:\ABXAE1Con.APP

Output Set: N:\CRF4\07152004\J714079A.raw

```

248 <213> ORGANISM: Homo sapiens
250 <400> SEQUENCE: 16
251 Gln Ala Asn Ser Phe Arg Thr
252   1           5
255 <210> SEQ ID NO: 17
256 <211> LENGTH: 7
257 <212> TYPE: PRT
258 <213> ORGANISM: Homo sapiens
260 <400> SEQUENCE: 17
261 Val Ala Ser Arg Leu Gln Ser
262   1           5
265 <210> SEQ ID NO: 18
266 <211> LENGTH: 18
267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
273 <400> SEQUENCE: 18
274 gagtttgggc tgagctgg                               18
277 <210> SEQ ID NO: 19
278 <211> LENGTH: 21
279 <212> TYPE: DNA
280 <213> ORGANISM: Artificial Sequence
282 <220> FEATURE:
283 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
285 <400> SEQUENCE: 19
286 ggaattctca caggagacga g                               21
289 <210> SEQ ID NO: 20
290 <211> LENGTH: 24
291 <212> TYPE: DNA
292 <213> ORGANISM: Artificial Sequence
294 <220> FEATURE:
295 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
297 <400> SEQUENCE: 20
298 gahatygagc tcacbcagtc tcca                               24
301 <210> SEQ ID NO: 21
302 <211> LENGTH: 21
303 <212> TYPE: DNA
304 <213> ORGANISM: Artificial Sequence
306 <220> FEATURE:
307 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
309 <400> SEQUENCE: 21
310 cctgttgaag ctctttgtga c                               21

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/714,079A

DATE: 07/15/2004  
TIME: 10:23:07

Input Set : A:\ABXAE1Con.APP  
Output Set: N:\CRF4\07152004\J714079A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; N Pos. 462, 495, 513 ✓

?



**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/714,079A

DATE: 07/15/2004

TIME: 10:23:07

Input Set : A:\ABXAE1Con.APP

Output Set: N:\CRF4\07152004\J714079A.raw

L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:420

L:170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:480